

**From:** mike shanahan  
**To:** [Rodriguez, Charles](#)  
**Cc:** [Robert.Plsek@CH2M.com](mailto:Robert.Plsek@CH2M.com); [Theo.VonWallmenich@CH2M.com](mailto:Theo.VonWallmenich@CH2M.com); [Michael.Lehman@CH2M.com](mailto:Michael.Lehman@CH2M.com); [Pope, Janet](#); [Rolfes, Sarah](#); [Drexler, Timothy](#)  
**Subject:** Property owner request at [Non Responsive] Gravel Restoration versus Topsoil and Sod  
**Date:** Saturday, March 25, 2017 11:09:12 AM  
**Attachments:** [USS Lead Gravel Restoration vs Topsoil and Sod.xlsx](#)

---

Hello Charles,

As we discussed in the field yesterday- Please see text below and attached evaluation of restoring the Upshaw property [Non Responsive] with the circular gravel driveway that he requested.

Safe regards-

**CH2M**

**Michael K Shanahan /SAC**  
**Manager-Health, Safety, and Environment**  
**Construction Manager**  
**2485 Natomas Park Dr.**  
**Suite 600**  
**Sacramento, Ca**  
**ML: 916.915.7896 (Cell)**  
**EMAIL: [michael.shanahan@ch2m.com](mailto:michael.shanahan@ch2m.com)**

---

**From:** Rohde, Beth/MKE  
**Sent:** Friday, March 24, 2017 3:49 PM  
**To:** Shanahan, Michael/SAC  
**Cc:** Von Wallmenich, Theo/DET ; Lehman, Michael/MKE  
**Subject:** Gravel Restoration versus Topsoil and Sod

The property owner at [Non Responsive] has requested restoration of an area with gravel instead of sod. Attached is a quick evaluation which shows gravel restoration is a lower cost per square foot than topsoil. SulTRAC specifications require a minimum 4-inch thickness of gravel, so the cost evaluation was prepared for 6-inches of topsoil and sod against 2-inches of backfill and 4-inches of gravel. As with any of the property owner requests, this request is subject to EPA approval, but the attached can be used when preparing the change log.  
Please let me know if there are any questions.

**Beth Rohde, PE**

*Environmental Engineer*

D 1 414 847 0276

M 1 262 402 8026

F 1 414 454 8777

**CH2M**

135 South 84<sup>th</sup> Street

Suite 400

Milwaukee, WI 53214

[www.ch2m.com](http://www.ch2m.com) | [LinkedIn](#) | [Twitter](#) | [Facebook](#)